

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/15154

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :A61K 31/437; A61P 31/04; C07D 471/04
US CL :514/292; 546/85, 86, 87

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 514/292; 546/85, 86, 87

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CAS ONLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,977,159 A (SEVRIN ET AL) 11 December 1990, columns 1-2, scheme 1, compound (VI).	1, 4, 5
X	US 5,416,193 A (M. C. DESAI) 16 May 1995, column 16, Example 17.	1, 2, 4, 5, 10
X	US 4,154,943 A (M. E. KUEHNE) 15 May 1979, column 9, compound (II).	1, 2, 4-6
X	AHSAN et al. Reserpine analogues:synthesis of B-carboline derivatives. J. Chem. Soc. 1963, pages 3928-3930, especially page 3930.	1, 2, 4, 5

Further documents are listed in the continuation of Box C. See patent family annex.

- Special categories of cited documents:	*T*	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document published on or after the international filing date	"Y"	document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"Q" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

05 JULY 2000

Date of mailing of the international search report

04 OCT 2000

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Faxsimile No. (703) 305-3230

Authorized officer

EVELYN HUANG

Telephone No. (703) 308-1235

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/15154

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ABOU-GHARBIA et al. Psychotropic agents: synthesis and antipsychotic activity of substituted B-carbolines. J. Med. Chem. 1987, Vol. 30, No. 6, pages 1100-1115, especially page 1101, compounds 45, 46.	1, 4, 5
X	SHOJI et al. Two novel alkaloids from Evodia Rutaecarpa. J. Natural Products. September-October 1989, Vol. 52, No. 5, pages 1160-1162, especially page 1160, compound 4.	1, 2, 4, 5
X	PACHTER et al. The chemistry of hortiamine and 6-methoxyhetsinine. J. Amer. Chem. Soc. 05 February 1961, Vol. 83, pages 635-642, especially page 636, compound XVIII.	1, 2, 4, 5
X	REHSE et al. Dopaminanaloge 1,2,3,4-tetrahydro-B-carboline. Arch. Pharm. (Weinheim, Ger.) 1978, Vol. 311, No. 1, pages 11-18, especially page 13, compound 3a.	1, 2, 4, 5